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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,687	03/22/2007	Angus Buchan Gordon	60261.0001USWO	5076
23552 MERCHANT &	7590 04/30/200 & GOULD PC	EXAMINER		
P.O. BOX 2903		TREYGER, ILYA Y		
MINNEAPOLIS, MN 55402-0903			ART UNIT	PAPER NUMBER
			3761	
			MAIL DATE	DELIVERY MODE
			04/30/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Comments	10/577,687	GORDON, ANGUS BUCHAN					
Office Action Summary	Examiner	Art Unit					
	ILYA Y. TREYGER	3761					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from 12 cause the application to become ABANDONEI	Lely filed the mailing date of this communication. (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 22 Ma	arch 2007.						
· <u> </u>	<u> </u>						
<i>i</i>	/ _						
, <u> </u>	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	, , , , , , , , , , , , , , , , , , ,						
	Claim(s) <u>1-22</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	5) Claim(s) is/are allowed.						
	6) Claim(s) <u>1-22</u> is/are rejected.						
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/27/2006; 01/05/2007.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite					

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DETAILED ACTION

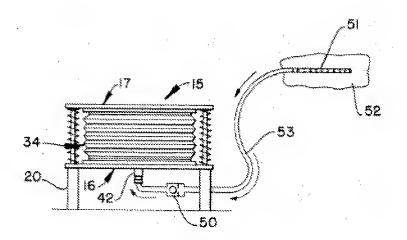
1. Claims 1-22 of the US Patent Application No. 10/577,687 filed 03/22/2007 are presented for examination.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 1-10 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis, Jr. (US 3,809,087) in view of Broadnax, Jr. (US 5,067,950).
- 5. In Re claims 1 and 2, Lewis discloses the closed wound suction apparatus (drainage device) 15 comprising:
 - a pre-evacuated chamber 34; and
- a drainage tube 53 connecting the pre-evacuated chamber to a free end portion 51 the variation of which is the needle (Col. 4, ln. 19-22; Fig.).

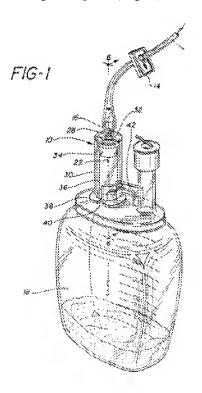
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Lewis does not expressly disclose the drainage device comprising the clamp attached to the connection tube, wherein the clamp has opened and closed position.

Broadnax teaches the wound drainage device wherein the tube is provided with the sliding clamp 14 (Fig. 1) having closed and opened positions.



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All the elements of the claimed invention are known in the art. One skilled in the art could have combined the known elements by known means, yielding the predictable result of maintaining the vacuum by the clamp attached to the tube. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the system suggested by the cited prior art with the clamp attached to the tube as disclosed by Kurtz in order to provide a system with the clamp that is known in the art to be suitable for such purposes.

- 6. In Re claim 3, Lewis discloses the closed drainage device wherein the pre-evacuated chamber is sterile (Abstract, ln. 13-16).
- 7. In Re claim 4, Lewis in view of Broadnax disclose the invention discussed above, but do not expressly disclose the particular parameter of the pre-evacuated chamber pressure range.

The particular pressure range of the pre-evacuated chamber depends of the quantity of the liquid has to be drained what in its turn depends of the particular character of the wound or/and surgical procedure, and therefore is the matter of optimization. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the pre-evacuated chamber having the pressure range depending of the intended use of the device since discovering the optimum or workable ranges involves only routine skill in the art.

8. In Re claim 5, Lewis in view of Broadnax disclose the invention discussed above, but do not expressly disclose the particular parameters of the pre-evacuated chamber volume.

The particular parameters of the pre-evacuated chamber volume depends of the quantity of the liquid has to be drained what in its turn depends of the particular character of the wound

or/and surgical procedure, and therefore is the matter of optimization. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the pre-evacuated chamber having the volume depending of the intended use of the device since discovering an optimum value of a result effective variable involves only routine skill in the art.

- 9. In Re claim 6, Lewis discloses the closed drainage device wherein the pre-evacuated chamber 34 is cylindrical (See Fig.).
- 10. In Re claim 7, Lewis discloses the closed drainage device wherein the pre-evacuated chamber 34 is folded since bellows design is a foldable design (See Fig.).
- 11. In Re claim 8, Lewis in view of Broadnax disclose the invention discussed above but do not expressly disclose the pre-evacuated chamber folded into the form of a "catherine wheel".

Since the criticality of folding the pre-evacuated chamber into the form of a pinwheel (catherine wheel) claimed by Applicant is not supported by any showing of criticality of form in the instant specification, nor did Applicant stated that such form serves any specific purpose or performs any specific function other that the function disclosed in Lewis, it would have been obvious top those skilled in the art at the time the invention was made to fold the pre-evacuated chamber into the form of a pinwheel as an obvious design choice, and as such it does not impact the patentability of claim 8.

- 12. In Re claim 9, Lewis discloses the closed drainage device wherein the pre-evacuated chamber is corrugated since bellows is the corrugated design (See Fig.).
- 13. In Re claim 10, Lewis discloses the closed drainage device wherein the pre-evacuated chamber is made of plastic (See Col. 4, ln. 14).

14. In Re claim 22, Lewis discloses the closed drainage device wherein the drainage tube is fully capable to be connected to the pre-evacuated chamber at manufacture.

15. Claims 15 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis, Jr. (US 3,809,087) in view of Broadnax, Jr. (US 5,067,950), as applied to claim 1 above, and further in view of Gilcher et al. (US 4,385,630).

Lewis in view of Broadnax disclose the invention discussed above but do not expressly disclose the device wherein the needle is a gauge needle, and particularly a 19 gauge needle.

Gilcher teaches the blood donation unit (blood drainage device) wherein the needle is a gauge needle and particularly the 19 gauge needle (Col. 4, ln. 13, 14).

All the elements of the claimed invention are known in the art. One skilled in the art could have combined the known elements by known means, yielding the predictable result of applying the 19 gauge needle. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the system suggested by the cited prior art with the gauge needle, and particularly 19 gauge needle as disclosed by Gilcher in order to provide a system with the needle that is known in the art to be suitable for such purposes.

16. Claim 17 rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis, Jr. (US 3,809,087) in view of Broadnax, Jr. (US 5,067,950), as applied to claim 1 above, and further in view of Olaussen (US 6,113,568).

Lewis in view of Broadnax disclose the invention discussed above but do not expressly disclose the device wherein the needle is a venflon needle.

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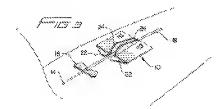
Olaussen teaches the vein catheter wherein the needle for draining body fluid is a venflon needle (See Col. 3, ln. 24-26).

All the elements of the claimed invention are known in the art. One skilled in the art could have combined the known elements by known means, yielding the predictable result of using the venflon needle for draining the body fluids. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the system suggested by the cited prior art with the venflon needle as disclosed by Olaussen in order to provide a system with the needle that is known in the art to be suitable for such purposes.

17. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis, Jr. (US 3,809,087) in view of Broadnax, Jr. (US 5,067,950), as applied to claim 1 above, and further in view of Hogan (US 4,820,282).

Lewis in view of Broadnax disclose the invention discussed above but do not expressly disclose the device wherein the needle is a butterfly needle.

Hogan teaches the use of butterfly needle 16 for draining the body fluids from the patient (See Fig. 3).



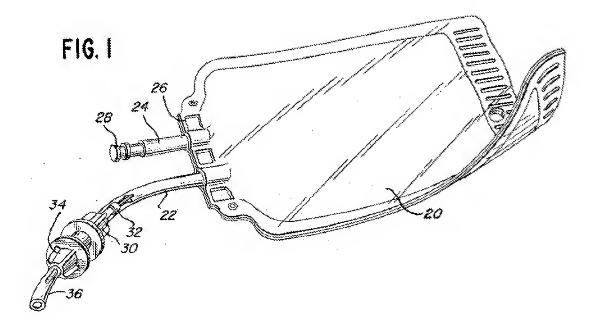
All the elements of the claimed invention are known in the art. One skilled in the art could have combined the known elements by known means, yielding the predictable result of the butterfly needle used for draining body fluid from the

patient. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the system suggested by the cited prior art with the butterfly needle as disclosed by Hogan in order to provide a system with the needle that is known in the art to be suitable for such purposes.

18. Claims 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis, Jr. (US 3,809,087) in view of Broadnax, Jr. (US 5,067,950), as applied to claim 1 above, and further in view of Dennehey (US 4,294,250).

Lewis in view of Broadnax disclose the invention discussed above but do not expressly disclose the drainage apparatus wherein elements of the device are connected by a Luer-Lock mechanism.

Dennehey teaches the use of Luer-Lock connection device 34 for coupling elements of apparatus fully capable of performing drainage function (See Abstract, In. 1-13: Fig. 1).

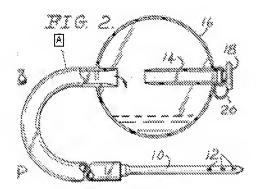


All the elements of the claimed invention are known in the art. One skilled in the art could have combined the known elements by known means, yielding the predictable result of coupling drainage device elements by Luer-Lock mechanizm. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the system suggested by the cited prior art with the coupling mechanizm as disclosed by Dennehey in order to provide a system with the Luer-Lock device that is known in the art to be suitable for such purposes.

19. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Friend (US 3,982,546) in view of Broadnax, Jr. (US 5,067,950).

Friend discloses the device for draining a body cavity comprising:

- a flexible reservoir 16 (pre-evacuated chamber); and
- a drainage tube A connecting the pre-evacuated chamber 16 to a needle 10, wherein the vacuum port 14 has a plug 18 (See Col. 4, ln. 13, 14; Fig. 2).



Friend does not expressly disclose the drainage device comprising the clamp attached to the connection tube, wherein the clamp has opened and closed position.

Broadnax teaches the wound drainage device wherein the tube is provided with the sliding clamp 14 (Fig. 1) having closed and opened positions.

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The rationale of obviousness rejection discussed above in claim 1 is incorporated herein in its entirety.

20. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over TRACE (US 2,936,757) in view of Broadnax, Jr. (US 5,067,950).

TRACE discloses the surgical drainage apparatus comprising:

a pre-evacuated chamber 10 (Fig. 1);

a drainage tube 31 (Fig. 1) connecting the pre-evacuated chamber 10 to a needle (See Col. 2, ln. 32-36), wherein the vacuum port 14 has a plug 18 (See Col. 4, ln. 13, 14; Fig. 2); and a the tube (access port) 80 (Fig. 6) fully capable of enabling the retrieval of a samples of fluid from the chamber and of comprising the tap.

TRACE does not expressly disclose the drainage device comprising the clamp attached to the connection tube, wherein the clamp has opened and closed position.

Broadnax teaches the wound drainage device wherein the tube is provided with the sliding clamp 14 (Fig. 1) having closed and opened positions.

The rationale of obviousness rejection discussed above in claim 1 is incorporated herein in its entirety.

Conclusion

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 5,785,700 disclose the AUTOTRANSFUSION SYSTEM WITH PORTABLE DETACHABLE VACUUM SOURCE. US 5,211,642 disclose the CHAMBERS DRUNAGE

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SYSTEM. US 3,745,999 disclose the MEDICAL SUCTION METHOD AND APPARATUS.

US 3,780,738 disclose the METHOD AND APPARATUS OF MEDICAL SUCTION.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ILYA Y. TREYGER whose telephone number is (571)270-3217.

The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ilya Treyger Examiner

AU 3761

//Leslie R. Deak//

Primary Examiner, Art Unit 3761

25 April 2008